

Lab 1. Transmission Lines

Name: _____

Section: _____

Due at the *beginning* of Lab.

Task 1. Troubles with the network analyzer

You've just started working as an engineer for a company and on your first day at work you are asked to measure the input impedance of a custom designed device at 80 MHz. You would normally use the network analyzer however it is out of order. The impedance is needed urgently and it is not advisable that you wait until the network analyzer gets repaired. In the lab, you find a 2-m long, 50- Ω slotted coaxial cable and this gives you an idea how to save the day.

In one or two sentences, explain how you are going to determine the input impedance of the device.
